

Amendments to the Specification

In the substitute specification, please replace the section "BRIEF SUMMARY OF THE DRAWINGS" with the following section:

BRIEF SUMMARY OF THE DRAWINGS

Figure 1a: Comparison of the nucleic acid sequence encoding UreX and Y, including a short non-coding region bridging the two coding sequences, from *Helicobacter felis* species CS1, SEQ ID NO: 1; Kukka, SEQ ID NO: ~~[[4]]~~ 13; Ds4, SEQ ID NO: ~~[[7]]~~ 10; 2301, SEQ ID NO: ~~[[10]]~~ 4; and 390, SEQ ID NO: ~~[[13]]~~ 7, with the nucleic acid sequence encoding UreA and B, including a short non-coding region bridging the two encoding sequences, from *Helicobacter felis*, ~~SEQ ID NO: 22~~, *pylori*, ~~SEQ ID NO: 23~~ and *heilmannii*, ~~SEQ ID NO: 24~~.

Figure 1b: Comparison of the amino acid sequence of UreX from *Helicobacter felis* species CS1, SEQ ID NO: ~~[[1]]~~ 2; ~~[[,]]~~ Kukka, SEQ ID NO: ~~[[4]]~~ 14; ~~[[,]]~~ Ds4, SEQ ID NO: ~~[[7]]~~ 11; ~~[[,]]~~ 2301, SEQ ID NO: ~~[[10]]~~ 5; and 390, SEQ ID NO: ~~[[13]]~~ 8, with the amino acid sequences of encoding UreA from *Helicobacter felis*, ~~SEQ ID NO: 22~~, *pylori*, ~~SEQ ID NO: 23~~ and *heilmannii*, ~~SEQ ID NO: 24~~.

Figure 1c: Comparison of the amino acid sequence of UreY from *Helicobacter felis* species CS1, SEQ ID NO: ~~[[1]]~~ 3; ~~[[,]]~~ Kukka, SEQ ID NO: ~~[[4]]~~ 15; ~~[[,]]~~ Ds4, SEQ ID NO: ~~[[7]]~~ 12; ~~[[,]]~~ 2301, SEQ ID NO: ~~[[10]]~~ 6; and 390, SEQ ID NO: ~~[[13]]~~ 9, with the amino acid sequences of encoding UreB from *Helicobacter felis*, ~~SEQ ID NO: 22~~, *pylori*, ~~SEQ ID NO: 23~~ and *heilmannii*, ~~SEQ ID NO: 24~~.

Figure 2: Polyacrylamide gel of the expression products UreX and UreY

Lane 7: Biorad broad range marker

Lane 8: Complete cell culture before induction (small scale culture)

USSN: 09/904,994

Attorney Docket: I-2000.566 US

Response to Office Action of November 21, 2005

Lane 9: Complete cell culture after induction (small scale culture)

Lane 10: Complete cell culture after induction (large scale culture)

Lane 11: Supernatant after induction (large scale culture).

Lane 12: Biorad pre-stained marker